Curriculum Vitae

Thomas Ried

Date of birth: Dec. 14, 1960
Place of birth: Karlsruhe, Germany

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EDUCATION

M.D., University of Heidelberg, 1989

THESIS

Max Planck Institute for Medical Research, Heidelberg, Department of Molecular Biology (Dr. Hans-Peter Vosberg)
"Cloning and characterization of the human ß-myosin heavy chain gene"

HABILITATION

Habilitation for Human Genetics, University of Heidelberg, Feb. 9, 1995
"Fluorescence in situ hybridization in genetic diagnostics"

RESEARCH EXPERIENCE

1989-1990: Institute of Human Genetics, University of Heidelberg, Section of Molecular Human Genetics (Dr. Friedrich Vogel).

1990-1993: Postdoctoral Fellowship from the Deutsche Forschungsgemeinschaft:

May 1990-August 1990: Department of Cytochemistry and Cytometry, Sylvius Laboratories, University of Leiden, The Netherlands (Dr. Anton K. Raap, Dr. Mels van der Ploeg).

September 1990-July 1992: Department of Genetics, Yale University School of Medicine, New Haven, Connecticut, USA (Dr. David C. Ward).

August 1992-May 1994: Department of Human Genetics, University of Heidelberg, Germany (Dr. Thomas Cremer).

PROFESSIONAL APPOINTMENTS

June 1994-October 1998: Head, Unit of Fluorescence in situ Hybridization Techniques, Diagnostic Development Branch/National Human Genome Research Institutes/National Institutes of Health, Bethesda, Maryland.

March 1995: Tenure track appointment at the NIH.

June 1996-October 1998: Director, Cytogenetic Core, National Human Genome Research Institute.

Since January 1998: Co-Director (with Dr. Ilan R. Kirsch), Cancer Chromosome Aberration Project (C-cap), National Cancer Institute/NIH (Development of a clone repository and cancer chromosome aberration database).

November 1998: Investigator, Genetics Department, Division of Clinical Sciences, National Cancer Institute

February 7, 2000: Tenure at the National Institutes of Health

AWARDS

May 1996: NCHGR-Interdisclipinary Research Award (Shared with Drs. Lawrence Brody and Anthony Wynshaw-Boris, National Center for Human Genome Research): Creation and Analysis of a Mouse Deficient for the Breast and Ovarian Cancer Susceptibility gene BRCA1.

COOPERATIVE RESEARCH & DEVELOPMENT AGREEMENTS (CRADA)

Development of a fully automated karyotyping system based on co-hybridization of Cy5-labeled chromosome specific repeat probes. (Applied Imaging, Inc.).

Development of an integrated microscope system for automated digital image acquisition for FISH-applications. (Leica Imaging, Ltd.).

Development of a hybridization based multicolor karyotype of the human chromosome

complement using spectral bio-imaging. (Applied Spectral Imaging, Ltd.).

MEMBERSHIP

German Society of Human Genetics
American Society of Human Genetics
American Association for Cancer Research
American Association for the Advancement of Science
European Cytogeneticists Association

REVIEWER

American Journal of Pathology
BioTechniques
Breast Cancer Research and Treatment
British Journal of Cancer
Cancer Genetics & Cytogenetics
Cancer Letters
Cancer Research
Clinical Cancer Research
Cytogenetics and Cell Genetics
Chromosome Research
Genes, Chromosomes & Cancer
Genes & Development
Genome Research
Genomics
Hepatology
Human Genetics
Human Molecular Genetics
Journal of the National Cancer Institute
Nature Genetics
Oncology
Proceedings of the National Academy of Sciences USA
Science
Trends in Genetics

Wellcome Research Trust, UK.
Association for International Cancer Research, UK.
The Neuro-Oncology Foundation of Canada.
Dutch Cancer Society.
Cancer Research Campaign, UK.
St. Bartholomew's Hospital, London, UK.
Fonds zur Förderung der wissenschaftlichen Forschung (FWF), Vienna, Austria.
Swiss Science Foundation
The Israel Science Foundation

Imaging Sciences Working Group, National Cancer Institute, NIH.
Special Emphasis Panel, Minority Biomedical Research Support, National Institutes of General Medical Sciences/NIH.
Source Evaluation Group, National Cancer Institute/DCPC/NIH.
Early Cancer Detection Workshop, National Cancer Institute, DCPC/NIH.
Novel Technologies for Evaluation of Molecular Alterations in Tissue, National Cancer

Institute, NIH.
Chromosome Aberration Workshop, National Cancer Institute, NIH.

EDITORIAL BOARD

Chromosome Research (1995-1999)
Genes, Chromosomes & Cancer (since 1998)
Human Genetics (since 1998)
Cancer Genetics & Cytogenetics (since 1998)

SECTION EDITOR

Analytical and Cellular Pathology

SCIENTIFIC ADVISORY BOARDS

Applied Spectral Imaging, Ltd., Migdal HaEmek, Israel
Cancer Genetics, Cambridge, MA, USA

PATENTS

"Delineation of individual human chromosomes in metaphase and interphase cells by in situ suppression hybridization" (US-patent appl. 08/312,429, notice of allowance).

"Filtertest for the detection of numerical chromosomal aberrations in testgenomes" (Patent # 43 33 726, Germany). Filed internationally as: "Arrangements of nucleic acids and their use".

"Method for the detection of cervical cancer" (US-patent # 5,919,624; July 6, 1999).

"Method for simultaneous detection of multiple fluorophores for in situ hybridization and multicolor chromosome painting and banding" (US-patent 08/575,191).

"Simultaneous multicolor visualization of chromogenic dyes using brightfield microscopy and spectral imaging" (US-patent appl. filed 8-8-1997).

MENTOR

Predoctoral fellows:	Present affiliation:
Kelly Just	Georgetown University Medical School
Tim Veldman	Georgetown University Graduate School

Thesis advisor:

Kerstin Heselmeyer	Karolinska Institute, Stockholm, Sweden
Regina Knutzen	University of Lübeck, Germany
Michael Bujard	University of Heidelberg, Germany

Postdoctoral fellows:

Amalia Dutra, Ph.D	Director, Cytogenetic Core, National Human Genome Research Institute, NIH
Marek Liyanage, Ph.D	Senior Scientist, Aurora Biosciences, La Jolla, CA
Merryn Macville, Ph.D	Assistant Professor, Department of Pathology, University of Nijmegen, The Netherlands
Stan du Manoir, Ph.D	Assistant Professor, INSERM, Strasbourg, France
Yi Ning, Ph.D	Director, Cytogenetics Laboratory, George Washington University, Washington, DC
Evelin Schröck, M.D.	Group Leader, Institut für Molekulare Biotechnologie, Jena, Germany

TEACHING/COURSES

Instructor, Cold Spring Harbor Laboratory Course on "Advanced in situ Hybridization and Immunocytochemistry", Cold Spring Harbor, New York.
Oct. 18-31, 1994
Oct. 12-25, 1995
Oct. 10-23, 1996
Oct. 14-27, 1997
Oct. 14-27, 1998
Oct. 13-26, 1999

Organizer, Cold Spring Harbor Laboratory Course on "Advanced Molecular Cytogenetics", Cold Spring Harbor, New York.
March 4-10, 1998
March 9-15, 1999